## **Environmental Protection Agency**

Pt. 53, Subpt. E, Fig. E-1

Subpart E procedure	Performance test	Performance specification	Test conditions	Part 50, appendix L reference		
§ 53.57 Filter temperature control test.	Filter temp. meas. accuracy.     Ambient temp. meas. accuracy.     Filter temp. control accuracy, sampling and non-sampling.	1. 2 °C	(a) 4-hour simulated solar radiation, sampling. (b) 4-hour simulated solar radiation, non-sampling. (c) Solar flux of 1000 ±50 W/m <sup>2</sup> .	Sec. 7.4.8. Sec. 7.4.10. Sec. 7.4.11.		
§ 53.58 Field precision test.	Measurement precision.     Storage deposition test for sequential samplers.	1. P <sub>j</sub> < 2 μg/m³ or RP <sub>j</sub> < 5%. 2. 50 μg max. average weight gain/blank filter.	(a) 3 collocated samplers at 1 site for at least 10 days. (b) PM <sub>2.5</sub> conc. > 3 μg/m³ (c) 24- or 48-hour samples (d) 5- or 10-day storage period for inactive stored filters.	Sec. 5.1. Sec. 7.3.5. Sec. 8. Sec. 9. Sec. 10.		
The Following Requirement Is Applicable to Class I Candidate Equivalent Methods Only						
§ 53.59 Aerosol transport test.	Aerosol transport	97%, min. for all channels	Determine aerosol transport through any new or modi- fied components with re- spect to the reference method sampler before the filter for each channel.			

[72 FR 32208, June 12, 2007]

Table E-2 to Subpart E of Part 53—Spectral Energy Distribution and Permitted Tolerance for Conducting Radiative Tests

Characteristic	Spectral Region				
Characteristic	Ultraviolet		Visible	Infrared	
Bandwidth (µm) Irradiance (W/m²) Allowed Tolerance	0.28 to 0.32 5 ±35%	0.32 to 0.40 56 ±25%	0.40 to 0.78 450 to 550 ±10%	0.78 to 3.00 439 ±10%	

[62 FR 38799, July 18, 1997; 63 FR 7714, Feb. 17, 1998]

Figure E–1 to Subpart E of Part 53—Designation Testing Checklist

### DESIGNATION TESTING CHECKLIST

	Auditee		ee	Auditor signature	Date		
Cor	Compliance Status:		Y = Yes	N = No	NA = Not applicable/Not available	Varification Comments (Includes	
١	Verification		Verified by Direct Observation of Process or of Documented Evidence: Performance, Design or Application Spec. Corresponding to Sections of 40 CFR Part 50,		ance, Design or Application Spec. Cor-	Verification Comments (Includes documentation of who, what, where, when, why) (Doc. #, Rev.	
Υ	Y N	NA	respondin	g to Section	Appendix L	#, Rev. Date)	
			1		ication Tests fficient of variation (§ 53.53) (L-7.4.3)		
			Filter temp	erature cor	ntrol (sampling) (§ 53.57) (L-7.4.10)		
			Elapsed sa	ample time	accuracy (§ 53.54) (L-7.4.13)		
			Filter temp	erature cor	ntrol (post sampling) (§ 53.57) (L-7.4.10)		
			Application	n Specific	ation Tests		
			Field Prec	ision (§ 53.5	58) (L–5.1)		

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#### Pt. 53, Subpt. E, Fig. E-2

Co	Compliance Status:		Y = Yes N = No NA = Not applicable/Not available	Verification Comments (Includes documentation of who, what, where, when, why) (Doc. #, Rev. #, Rev. Date)	
,	Verification		Verified by Direct Observation of Process or of Documented Evidence: Performance, Design or Application Spec. Corresponding to Sections of 40 CFR Part 53 or 40 CFR Part 50,		
Υ	N	NA	Appendix L	#, Nev. Date)	
			Meets all Appendix L requirements (part 53, subpart A, §53.2(a)(3)) (part 53, subpart E, §53.51(a),(d))		
			Filter Weighing (L-8)		
			Design Specification Tests		
			Filter (L-6)		
			Range of Operational Conditions (L-7.4.7)		
		The	Following Requirements Apply Only to Class I Candidate Equival	ent Methods	
			Aerosol Transport (§ 53.59)		

# FIGURE E–2 TO SUBPART E OF PART 53—PRODUCT MANUFACTURING CHECKLIST PRODUCT MANUFACTURING CHECKLIST

#### Auditee Auditor signature Date Compliance Status: Y = Yes N = No NA = Not applicable/Not available Verification Comments (Includes Verified by Direct Observation of Process or of Documented Evidence: Performance, Design or Application Spec. Corresponding to Sections of 40 CFR Part 53 or 40 CFR Part 50, Appendix L documentation of who, what, where, when, why) (Doc. #, Rev. #, Rev. Date) Verification Υ Ν NA **Performance Specification Tests** Assembled operational performance (Burn-in test) (§ 53.53) Sample flow rate (§ 53.53) (L-7.4.1, L-7.4.2) Sample flow rate regulation (§ 53.53) (L-7.4.3) Flow rate and average flow rate measurement accuracy (§ 53.53) (L-7.4.5) Ambient air temperature measurement accuracy (§ 53.55) (L-7.4.8)Ambient barometric pressure measurement accuracy (§ 53.56) (L–7.4.9) Sample flow rate cut-off (§ 53.53) (L-7.4.4) Sampler leak check facility (§ 53.52) (L-7.4.6) **Application Specification Tests** Flow rate calibration transfer standard (L-9.2) Operational /Instructional manual (L-7.4.18) **Design Specification Tests**

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Impactor (jet width) (§ 53.51(d)(1)) (L-7.3.4.1)

Surface finish (§ 53.51(d)(2)) (L-7.3.7)